REGD. GOA - 5

Panaji, 10th June, 1999 (Jyaistha 20, 1921)

SERIES I No. 11

OFFICIAL GAZETTE

GOVERNMENT OF GOA

NOTE: There is one Extraordinary issue to the Official Gazette Series I No. 10 dated 3-6-99 namely Extraordinary dated 3-6-99 from pages 123 to 126 regarding Notifications from Department of Forest.

GOVERNMENT OF GOA

Department of Labour

Notification

26/6/99-LAB/1240

Whereas certain draft rules which the Government proposed to make in exercise of the powers conferred by section 112 read with section 41-B of the Factories Act, 1948 (Central Act 63 of 1948) (hereinafter called the "said Act"), were pre-published as required by section 115 of the said Act at pages 397 to 410 of the Official Gazette, Series I No. 29, dated 15-10-98, under Notification No. 26/6/98-LAB dated 21-8-98, of the Department of Labour, Government of Goa, inviting objections and suggestions from the persons likely to be affected thereby within three months from the date of publication of the said Notification in the Official Gazette;

And Whereas, the said Gazette was made available to the public on 15-10-98,

And Whereas, no objections and suggestions have been received from the public on the said draft by the Government.

Now, Therefore, in exercise of the powers conferred by section 112, read with section 41-B of the Factories Act, 1948 (Central Act 63 of 1948), and all other powers enabling it in that behalf, the Government of Goa hereby makes the following rules so as to amend the Goa Control of Industrial Major Accident Hazards Rules, 1993, as follows,:—

1. *Short title and commencement.*— (*1*) These rules may be called the Goa Control of Industrial Major Accident Hazards (Amendment) Rules, 1999.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. *Amendment of rule 2.*— In rule 2 of the Goa Control of Industrial Major Accident Hazards Rules, 1993 (hereinafter called the "principal Rules"),—

(*a*) in clause (*b*),—

(*i*) in sub-clause (*i*), for the words "an industrial installation", the words "a factory" shall be substituted;

(*ii*) sub-clause (*ii*) shall be omitted;

(*b*) in clause (*c*), for the words "an installation", the words "a factory" shall be substituted;

(*c*) for clause (*d*), the following shall be substituted, namely:—

"(*d*) "major accident" means an incident involving loss of life inside or outside the site or 10 or more injuries inside and /or one or more injuries outside or release of toxic chemical or explosion or fire or spillage of hazardous chemical resulting in 'on-site' or 'off-site' emergencies or damage to equipments leading to stoppage of process or adverse effects to the environment;"

(*d*) Clause (*g*) shall be omitted.

3. *Amendment of rule 3.*— In rule 3 of the principal Rules,—

(*i*) in sub-rule (*1*),—

(*a*) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(*b*) for the word "and", the word "or" shall be substituted;

(*ii*) for sub-rule (*2*), the following shall be substituted, namely:—

"(2) An Occupier of an industrial activity or isolated storage in terms of sub-rule (*1*) of this rule, shall arrange to obtain or develop information on hazardous chemical in the form of a material safety data sheet as specified".

(*iii*) in sub-rule (*3*), for the expression "material safety data sheet as indicated", wherever it occurs, the expression "safety data sheet as specified" shall be substituted.

4. *Insertion of new rule 3A.*— After rule 3 of the principal Rules, the following new rule shall be inserted, namely:—

"3A *Duties of Inspector.*— The Inspector shall—

(*a*) inspect the industrial activity or isolated storage at least once in a calendar year;

(*b*) send annually status report on the compliance with the Rules by occupiers to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India; and

(*c*) enforce directions and procedures in respect of industrial activities or isolated storages covered under the Factories Act, 1948 (Central Act 63 of 1948), and in respect of pipelines upto a distance of 500m from the outside of the perimeter of the factory, regarding—

(*i*) notification of major accidents as per rule 5;

(*ii*) notification of sites as per rules 7 and 8;

(*iii*) safety reports and further information in terms of rules 10 to 12;

(*iv*) preparation of on-site emergency plans as per rule 13 and involvement in the preparation of off-site emergency plans in consultation with District Collector or District Emergency Authority in terms of rule 14".

5. *Amendment of rule 4.*— In rule 4 of the principal Rules,—

(*i*) in the heading, for the word "occupiers", the word "occupier" shall be substituted;

(*ii*) in sub-rule (*1*),—

(*a*) in clause (*a*),

(*1*) the words "other than isolated storage" shall be omitted;

(*2*) for the word "and", appearing after the word and figure "schedule 1", the word "or" shall be substituted;

(*b*) in clause (*b*), for the word "quantity", the words "threshold quantity" shall be substituted;

(*iii*) in sub-rule (*2*),—

(*a*) for the expression "An occupier who has control of an industrial activity in terms of sub-rule (*1*) of this rule, shall provide evidence to show that he has", the expression "An occupier in terms of sub-rule (1) shall provide information on demand to show that he has" shall be substituted;

(*b*) in item (*ii*) of clause (*b*), for the word "safety", the words "safety and health" shall be substituted.

6. *Amendment of rule 5.*— In rule 5 of the principal rules,—

(*i*) for sub-rule (*1*), the following shall be substituted, namely:—

"(*1*) where a major accident occurs on a site or in a pipeline, the occupier, shall within 48 hours, notify the Inspector and Chief Inspector of that accident, and furnish thereafter to the Inspector and Chief Inspector a report relating to the accident in instalments, if necessary, in Schedule 6.";

(*ii*) for sub-rule (*2*), the following shall be substituted, namely:—

"(*2*) The Inspector and Chief Inspector shall, on receipt of the report in accordance with sub-rule (*1*) of this rule undertake a full analysis of the major accident and send the requisite information to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India.";

(*iii*) after sub-rule (*2*), the following new sub-rules shall be inserted, namely:—

"(*3*) An occupier shall notify to the Inspector steps taken to avoid any repetition of such occurrence on a site.

(*4*) The Inspector and the Chief Inspector shall compile information regarding major accidents and make available a copy of the same to the Ministry of Environment and Forests through the Directorate General Factory Advice Service and Labour Institutes and Ministry of Labour, Government of India.

(*5*) The Inspector and the Chief Inspector shall inform the occupier in writing of any lacunae which in their opinion needs to be rectified to avoid major accidents".

7. *Amendment of rule 6.*— In rule 6 of the principal Rules,—

(*i*) in the heading, after the words "industrial activities", the words "or isolated storages" shall be inserted;

(*ii*) in sub-rule (*1*),—

(*a*) in clause (*a*),—

(*1*) for the figures and words "7 to 9 and 13 to 15", the figures and words "7, 8, 13 and 15" shall be substituted;

(*2*) for the word "quantity", the words "threshold quantity" shall be substituted;

(*b*) in clause (*b*), for the word "quantity", occurring after the words "more than the", the words "threshold quantity" shall be substituted;

(*c*) in clause (*c*),—

(*1*) for the figures and word "7 to 9", the figures and word "7 and 8" shall be substituted;

(*2*) for the word "quantity" appearing after the words "more than the", the words "threshold quantity" shall be substituted;

(*d*) in clause (*d*),—

(*1*) for the figures and word "10 to 15", the figures and words "10 to 13 and 15" shall be substituted;

(2) for the word "quantity", occurring after the words "more than the", the words "threshold quantity" shall be substituted;

(*iii*) sub-rule (*2*) shall be omitted.

8. *Amendment of rule 7.*— In rule 7, of the principal Rules,—

(*i*) for the heading, the following shall be substituted, namely:—

"Notification of site";

(*ii*) in sub-rule (*1*),

(*a*) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(*b*) for the figure and word "3 months", the figure and word "90 days" shall be substituted;

(*c*) for the word "quantity", the words "threshold quantity" shall be substituted.

(*iii*) for sub-rule (*2*), the following shall be substituted, namely:—

"(*2*) The Chief Inspector shall, within 60 days from the date of receipt of the report in accordance with sub-rule (*1*) of this rule, examine the report and if on such examination, he is of the opinion that contravention of the provisions of the Act or the rules made thereunder has taken place, he may issue notice for obtaining compliance."

9. *Amendment of rule 8.*— In rule 8 of the principal Rules,—

(*i*) for the heading, the following shall be substituted, namely:—

"Up-dating of the site notification";

(*ii*) after the expression "in the pipeline or", the word "at" shall be inserted;

(*iii*) after the expression "further report to the", the words "Inspector and the" shall be inserted.

10. *Omission of rule 9.*— Rule 9 of the principal Rules shall be omitted.

11. *Amendment of rule 10.*— In rule 10 of the principal Rules,—

(*i*) in the heading, after the words "Safety Reports", the words "and safety Audit Reports" shall be inserted;

(*ii*) in sub-rule (*1*),

(*a*) after the words "industrial activity" and before the expression "to which these rules apply", the words "or isolated storage" shall be inserted;

(*b*) for the figure and word "3 months", the figure and word "90 days" shall be substituted;

(*iii*) for sub-rules (*2*) and (*3*), the following shall be respectively substituted, namely:—

"(*2*) After the commencement of these rules, the occupiers of both the new and the existing industrial activities or isolated storages shall arrange to carry out safety audit by a competent agency to be accredited by an Accredition Board to be constituted by the Ministry of Labour, Government of India in this behalf.

Further, such auditing shall be carried out as under:—

(*a*) internally once in a year by a team of suitable plant personnel;

(*b*) externally once in two years by a competent agency accredited in this behalf;

(*c*) In the year when an external audit is carried out, internal audit need not be carried out.

(*3*) The occupier shall within 30 days of the completion of the audit, send a report to the Chief Inspector with respect to the implementation of the audit recommendations.".

12. *Amendment of rule 11.*— In rule 11 of the principal Rules,—

(*i*) in the heading, for the word "reports", the words "safety reports" shall be substituted;

(*ii*) in sub-rule (*1*),—

(*a*) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(*b*) for the expression "Chief Inspector at least 3 months", the words "Inspector and Chief Inspector at least 90 days" shall be substituted.

(*iii*) in sub-rule (*2*),—

(*a*) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(*b*) before the figure and word "1 month", the figure and word "30 days" shall be substituted;

(*c*) before the words "Chief Inspector", the words "Inspector and the" shall be inserted.

13. *Amendment of rule 12.*— For rule 12 of the principal Rules, the following shall be substituted, namely:—

"12. *Requirement for further information to be sent to the Inspector and the Chief Inspector.*— Where, in accordance with rules 10 and 11, an occupier has sent safety report and safety audit report relating to an industrial activity or isolated storage to the Inspector and the Chief Inspector, the Inspector and the Chief Inspector may, by a notice served on the occupier, require him to provide such additional information as may be specified in the notice and the occupier shall send that information to the Inspector and the Chief Inspector within 90 days.".

14. *Amendment of rule 13.*— In rule 13 of the principal Rules,—

(*i*) in the heading, for the words "plans" and "occupiers", the words "plan" and "occupier" shall be respectively substituted;

(*ii*) for sub-rule (*1*), the following shall be substituted, namely:—

"(*1*) The occupier shall prepare, keep up-to-date and furnish to the Inspector and the Chief Inspector an on-site emergency plan containing details specified in Schedule 8A and detailing how major accidents will be dealt with on the site on which the industrial activity or isolated storage is carried on and that plan shall include the name of the person who is responsible for safety on the site and the names of those who are authorized to take action in accordance with the plan in case of an emergency.";

(*iii*) In sub-rule (*2*),—

(*a*) after the words "industrial activity", the words "or isolated storage" shall be inserted;

(*b*) for the words "affected by", the words "concerned with" shall be substituted;

(*iv*) in sub-rule (*3*), for clauses (*a*) and (*b*), the following shall be substituted, namely:—

"(*a*) before the commencement of industrial activity or isolated storage;

(*b*) within 90 days of coming into operation of these rules, in case of an existing industrial activity or isolated storage.";

(*v*) after sub-rule (*3*), the following shall be inserted, namely:—

"(*4*) The occupier shall ensure that a mock drill of the on-site emergency is conducted at least once in every six months.

(*5*) A detailed report of the mock drill conducted under sub-rule (*4*) shall be immediately made available to the Inspector and the Chief Inspector.".

15. *Omission of rule 14.*— Rule 14 of the principal Rules shall be omitted.

16. *Amendment of rule 15.*— In rule 15 of the principal Rules,—

(*i*) for sub-rules, (*1*) and (*2*), the following shall be substituted, namely:—

"(*1*) The occupier shall take appropriate steps to inform persons out-side the site who are likely to be in an area which may be affected by a major accident about—

(*a*) the nature of the major accident hazard; and

(*b*) the safety measures and the 'Do's and 'Don'ts which should be adopted in the event of a major accident.

(2) The occupier shall take appropriate steps specified in sub-rule (*1*) of this rule to inform persons about, an industrial activity or isolated storage before that activity is commenced, except that in respect of an existing industrial activity or isolated storage, the occupier shall comply with the requirements of sub-rule (*1*) of this rule within 90 days of coming into operation of these rules.".

17. *Amendment of rule 16.*— In rule 16 of the principal Rules,—

(*i*) in the heading, the expression "notified under these Rules" shall be omitted;

(*ii*) the expression "or the District Emergency Authority", wherever it occurs, shall be omitted.

18. *Omission of rule 17.*— Rule 17 of the principal Rules shall be omitted.

19. *Amendment of Schedule.*— In the principal Rules, for the existing schedule 1, 2, 3, 4 and 7, the following schedules shall be respectively substituted, namely:—

"SCHEDULE - 1

[*See* rules 2 (a) (i), 3 (1) and 4 (1) (a)]

PART I

(*a*) **Toxic Chemicals:**

Chemicals having the following values of acute toxicity and which owing to their physical and chemical properties, are capable of producing major accident hazards:

Sl. No.	Degree of Toxicity	Medium lethal dose by the oral route toxicity LD50 (mg/kg body weight of test animals)	Medium lethal dose by the dermal route (dermal LD50 body weight of teast animals)	Medium lethal concentration by inhalation route (Four hours) LC50 (mg/1 Inhalation in teast animals
(1)	Extremely-toxic	1-50	1-200	0.1-0.5
(2)	Highly toxic	51-500	201-2000	0.5-2.0

(*b*) **Flammable Chemicals:**

(*i*) *Flammable gases:* Chemicals which in the gaseous state at normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20^0c or below;

(*ii*) *Highly flammable liquids:* Chemicals which have a flash point lower than 23^0c and the boiling point of which at normal pressure is above 20^0c;

(*iii*) *Flammable liquids:* Chemicals which have a flash point lower than 65^0c and which remain liquids under pressure, where particular processing condition, such as high pressure and high temperature, may create major accident hazards.

(c) **Explosives:** Chemicals which may explode under the effect of flame, heat or photo-chemical conditions or which are more sensitive to shocks or friction than dinitrobenzene.

PART II

List of Hazardous and Toxic Chemicals

Sl. No.	Name of the Chemical
(1)	(2)
1.	Acetone
2.	Acetone Cyanohydrine
3.	Acetyl Chloride
4.	Acetylene (Ethyne)
5.	Acrolein (2-Propenal)
6.	Acrylonitrile
7.	Aldicarb
8.	Aldrin
9.	Alkyl Phthalate
10.	Allyl Alcohol
11.	Allylamine
12.	Alpa Naphthyl Thiourea (Autu)
13.	Aminodiphenyl,—4
14.	Aminophenol-2
15.	Amitón
16.	Ammonia
17.	Ammonium Nitrate
18.	Ammonium Nitrates in fertilizers
19.	Ammonium Sulfamate
20.	Anabasine
21.	Aniline
22.	Aniridine-p
23.	Antimony and Compounds
24.	Antimony Hydride (Stibine)
25.	Arsenic Hydride (Arsine)
26.	Arsenic Pentoxide, (Arsenic) (v), Acid and salts
27.	Arsenic Trioxide,' Aresenious (iii), Acids and Salts
28.	Asbestos
29.	Azinphos-Ethyl
30.	Azinphos-Methyl
31.	Barium Azide
32.	Benzene
33.	Benzidine
34.	Benzidine Salts
35.	Benzoquinone
36.	Benzoyl Chloride
37.	Benzoyl Peroxide
38.	Benzyl Chloride
39.	Benzyl Cyanide
40.	Beryllium (Powders, Compounds)
41.	Biphenyl
42.	Bis (2-Chloromethyl) Ketone
43.	Bis (2, 4, 6-Trinitrophenyl) Amine
44.	Bis (2-Chloroethyl) Sulphide
45.	Bis (Chloromethyl) Ketone
46.	Bis (tert-Butylperoxy) Butane, -2, 2
47.	Bis (tert-Butylperoxy) Cyclohexane, 11
48.	Bis, 1, 2 Tribromophenoxy-Ethane
49.	Bisphenol
50.	Boron and Compounds
51.	Bromine
52.	Bromine Pentafluoride
53.	Bromoform
54.	Butadiene-1, 3
55.	Butane
56.	Butanone-2
57.	Butoxy Ethanol
58.	Butylgycidal Ether
59.	Butyl Peroxyacetate, tert
60.	Butyl peroxy Isobutyrate, tert
61.	Butyl peroxy Isopropyl carbonate, tert
62.	Butyl Butyl peroxymaleate, tert
63.	Butyl peroxypivalate,-tert
64.	Butyl vinyl Ether
65.	Butyl-n-Mercaptan
66.	Butylamine
67.	C 9-Aromatic Hydrocarbon Fraction
68.	Cadmium and Compounds
69.	Cadmium Oxide (fumes)
70.	Calcium Cyanide
71.	Captan
72.	Captofol
73.	Carbaryl (Sovin)
74.	Carbofuran
75.	Carbon Disulphide
76.	Carbon Monoxide
77.	Carbon Tetrachloride
78.	Carbophenothion
79.	Cellulose Nitrate
80.	Chlorates (used in explosives)
81.	Chlordane
82.	Chlorfenvinphos
83.	Chlorinated Benzenes
84.	Chlorine
85.	Chlorine Dioxide
86.	Chlorine Oxide
87.	Chlorine Trifluoride

(1)	(2)
88.	Chlormequae Chloride
89.	Chloroacetal Chloride
90.	Chloriacetaldehyde
91.	Chloroaniline, -2
92.	Chloroaniline, -1
93.	Chlorobenzene
94.	Chlorodiphenyl
95.	Chloroepoxypropane
96.	Chloroethanol
97.	Chloroethyl Chloroformate
98.	Chlorofluorocarbons
99.	Chloroform
100.	Chloroformyl, -1, Morpholine
101.	Chloromethane
102.	Chloromethyl Ether
103.	Chloromethyl Methy Ether
104.	Chloronitrobenzene
105.	Chloroprene
106.	Chlorosulphonic Acid
107.	Chlorotrinitrobenezene
108.	Chloroxuron
109.	Chromium and Compounds
110.	Cobalt and Compounds
111.	Copper and Compounds
112.	Coumafuryl
113.	Coumaphos
114.	Coumateralyl
115.	Crenola
116.	Crimidine
117.	Cumene
118.	Cyanophos
119.	Cyanothoate
120.	Cyanuric Fluoride
121.	Cyclohexane
122.	Cyclohexanol
123.	Cyclohexa
124.	Cyclohexamide
125.	Cyclopentadiene
126.	Cyclopentane
127.	Cycloletramethylentetranitramine
128.	Cyclotrimethylene trinitramine
129.	DDT
130.	Decabromodiphenyl Oxide
131.	Demeton
132.	Di-Isobutyl Peroxide
133.	Di-a-propyl Peroxydicarbonate
134.	Di-sec-Butyl Peroxydicarbonate
135.	Dialifos
136.	Diazodinitrophenol
137.	Diazomethane
138.	Dibenzyl Peroxydicarbonate
139.	Dichloroacetylene-O
140.	Dichlorobenzene-O
141.	Dichlorobenzene-P
142.	Dicloroethane
143.	Dichloroethyl Ether
144.	Dichlorophenol, -2, 4
145.	Dichlorophenol, -2, 6
146.	Dichlorophenoxy Acetic Acid -2, 4 (2, 4-D)
147.	Dichloropropane, -1, 2
148.	Dichlorosalicylic Acid. -3, 5
149.	Dichlorvos (DDVP)
150.	Dicrotophos
151.	Dieldrin
152.	Diepoxybutane
153.	Diethyl Peroxydicarbonate
154.	Diethylene Glycol Dinitrate
155.	Diethylene Triamine
156.	Diethyleneglycol Butyl Ether/Diethyleneglycol Butyl Acetate
157.	Diethylenetriamine (DETA)
158.	Diglycidyl Either
159.	Dithydroperoxypropane, -2, 2
160.	Di-isobutyryl Peroxide
161.	Dimefox
162.	Dimethoate
163.	Dimethyl Phosphoramidocyanidic Acid
164.	Dimethyl Phthalate
165.	Dimethyl carbomyl
166.	Dimethylnitrosamine
167.	Dinitrophenol, Salts
168.	Dinitrotoluene
169.	Dintro-o-Cresol
170.	Dioxane
171.	Dioxathion
172.	Dioxolane
173.	Diphacinone
174.	Diphonsoramide Octamethyl

(1)	(2)
175.	Dipropylene Glycolmethylether
176.	Disulfoton
177.	Endosulfan
178.	Endrin
179.	Epichlorohydrin
180.	EPN
181.	Epoxypropane, 1, 2
182.	Ethion
183.	Ethyl Carbamate
184.	Ethyl Ether
185.	Ethyl Hexanol, -2
186.	Ethyl Mercaptan
187.	Ethyl Methacrylate
188.	Ethyl Nitrate
189.	Ethylamine
190.	Ethylene
191.	Ethylene Chlorohydrine
192.	Ethylene Diamine
193.	Ethylene Dibromide
194.	Ethylene Dichloride
195.	Ethylene glycol Dinitrate
196.	Ethylene Oxide
197.	Ethylenelimine
198.	Ethylthiocyanate
199.	Fensulphothion
200.	Fluenetil
201.	Fluoro.-4, -2-Hydroxybutyrix Acid and Salts Esters Amides
202.	Fluoracetic Acid and Salts, Esters, Amides
204.	Fluorobutyric Acid, -4, Salts, Esters, Amides
205.	Formaldehyde
206.	Glyconitrile (Hydroxyacetonitrile)
207.	Guanyl -1, -4-Nitrosaminoguanyl-1-Tetrazene
208.	Heptachlor
209.	Hexachloro Cyclopentadiene
210.	Hexachlorocyclohexane
211.	Hexachlorocyclomethane
212.	Hexachlorodibenzo-p-Dioxin, 1, 2, 3, 7, 8, 9
213.	Hexafluoropropene
214.	Hexamethyl phosphoramide
215.	Hexamethyl, 3, 3, 6, 9, 9-1, 2, 4, 5-Teraoxacylononane
216.	Hexamethylendiamine
217.	Hexane
218.	Hexanitroutlebene, -2, 2, 4, 4, 6, 6
219.	Hexavalent Chromium
220.	Hydrazine
221.	Hydrazine Nitrate
222.	Hydrochloric Acid
223.	Hydrogen
224.	Hydrogen Bromide (Hydrobromic Acid)
225.	Hydrogen Chloride (Liqulified Gas)
226.	Hydrogen Cyanide
227.	Hydrogen Fluoride
228.	Hydrogen Selenide
229.	Hydrogen Sulphide
230.	Hydroquinone
231.	Iodine
232.	Isobenzan
233.	Isodrin
234.	Isophorone Di-isocyanate
235.	Isopropyl Ether
236.	Juglone (5-hydroxyaphthalene-1, 4-Dione)
237.	Lead (inorganic fumes & dusts)
238.	Lead 2, 4, 6-Trinitroresorcinoxide (Lead Styphnate)
239.	Lead Azide
240.	Leptophos
241.	Lindane
242.	Liquified Petroleum Goa (LPG)
243.	Maleic Anhydride
244.	Managanese & Compounds
245.	Mercapte Senzothiazole
246.	Mercury Alkyl
247.	Mercury Fulminate
248.	Mercury Methyl
249.	Methacrylke Anhydride
250.	Methacrylonitrile
251.	Methacryloyl Chloride
252.	Methamidophos
253.	Methanesuphonyl Fluoride
254.	Methanthiol
255.	Methoxy Ethanol (2-Methyl Cellosolve)
256.	Methoxycthylmercuric Acetate
257.	Methyl Acrylate
258.	Methyl Alcohol
259.	Methyl Amylketone
260.	Methyl Bromide (Bromomethane)
261.	Methyl Chloride
262.	Methyl Chloroform

(1)	(2)
263.	Methyl Cyclohexene
264.	Methyl ethyl Ketone Peroxide
265.	Methyl Hydrazine
266.	Methyl Isobutyl Ketone
267.	Methyl Isobutyl Ketone Peroxide
268.	Methyl Isocyanate
269.	Methyl Isothiocyanate
270.	Methyl Mercaptan
271.	Methyl Methacrylate
272.	Methyl Parathion
273.	Methyl Phosphonic Dichloride
274.	Methyl-N, 2, 4, 6-Tetranitroaniline
275.	Methylene Chloride
276.	Methylenebis, -4, 4, (2,-chloroanilne)
277.	Methyltrichlorosilane
278.	Mevinphos
279.	Molybdenum & Compounds
280.	N-Methyl-N, 2, 4, 6-Tetranitroaniline
281.	Naphtha (Coal Tar)
282.	Naphtylamine, 2
283.	Nickel & Compounds
284.	Nickel Tetracarbonyl
285.	Nitroaniline-O
286.	Nitroaniline-P
287.	Nitrobenzene
288.	Nitrochlorobenzene-P
289.	Nitrocyclohexane
290.	Nitroethane
291.	Nitrogen Dioxide
292.	Nitrogen Oxides
293.	Nitrogen Trifluoride
294.	Nitroglycerine
295.	Nitrophenol-P
296.	Nitropropane-1
297.	Nitropropane-2
298.	Nitrosodimethylamine
299.	Nitrotoluene
300.	Octabromophenyl Oxide
301.	Oleum
302.	Oleylamine
303.	OO-Diethyl S-Ethysulphonmethyl
304.	OO-Diethyl S-Ethylsulphonylmethyl Phosphorothioate
305.	OO-Diethyl S-Ethylthiomethyl Phospherothioate
306.	OO-Diethyl S-Inoprophylthiomethyl Phosphorodithioate
307.	OO-Diethyl S-propylthiomethyl Phoshorodithiolate
308.	Oxyamyl
309.	Oxydisulfoton
310.	Oxygen
311.	Oxygen Difluoride
312.	Ozone
313.	Paroxon (diethyl 4-Nitrophenyl Phosphate)
314.	Paraquat
315.	Parathion
316.	Parathion (Methyl)
317.	Paris green (Bis Aceto Hexametarsen ito Tetracopper)
318.	Pentaborane
319.	Pentabromodiphenyl Oxide
320.	Pentabromophenol
321.	Pentachloro Naphthalene
322.	Pentachloroethane
323.	Pentachlorophenol
324.	Pentaerythritol Tetranitrate
325.	Pentane
326.	Peracetic Acid
327.	Perchloroethylene
328.	Perchloromethyl Mercaptan
329.	Petanone, 2, 4-Methyl
330.	Phenol
331.	Phenyl Glycidal Ether
332.	Phenylene P-Diamine
333.	Phenylmercury Acetate
334.	Phorate
335.	Phosacetim
336.	Phosalone
337.	Phosfolan
338.	Phosgene (carbonyl chloride)
339.	Phosmet
340.	Phosphamidon
341.	Phosphine (Hydrogen Phosphide)
342.	Phosphoric Acid and Esters
343.	Phosphoric Acid, Bromoethyl Bromo (2, 2-Dimethylpropyl) Bromoethyl Ester
344.	Phosphoric Acid Bromoethyl Bromo (2, 2-Dimethylpropyl) Chloroethyl Ester
345.	Phosphoric Acid Chloroethyl Bromo (2, 2-Dimethoxylpropyl Chloroethyl Ester
346.	Phosphorous & Compounds
347.	Phostalan

(1)	(2)
348.	Picric Acid (2, 4, 6-Trinitro Phenol)
349.	Polybrominated Biphenyls
350.	Potassium Arsenite
351.	Potassium Chlorate
352.	Promurit (1-(3, 4-Dichlorophenyl-triazenethiocarhoxamide)
353.	Propannenultone-1, 3
354.	Propen-1, -2-Chloro-1, 3-Diol- Diacetate
355.	Propylene Oixde
356.	Proyleneimine
357.	Pryazoxon
358.	Solonium Hexafluoride
359.	Semicarbazide Hydrochloride
360.	Sodium Arsenite
361.	Sodium Azide
362.	Sodium Chlorate
363.	Sodium Cyanide
364.	Sodium Picramate
365.	Sodium Selenite
366.	Styrene, 1, 1, 3, 2-Tetrachloroethane
367.	Sulfotep
368.	Sulphur dichloride
369.	Sulphur Dioxide
370.	Sulphur Trioxide
371.	Sulphuric Acid
372.	Sulphoxide, 3-Chloropropyloctyl
373.	Tellurium
374.	Tellurium Hexafluoride
375.	Tepp
376.	Terbufon
377.	Tetrabromo Bisphenol-A
378.	Tetrachloro. 2, 2, 5, 6, 2, 5-Cyclohexadiene-1, 4-Dione
379.	Tetrachlorodibenzo-p Dloxin, 2, 3, 7, 8 (TCDD)
380.	Tetracthyl Lead
381.	Tetrafluoroethane
382.	Tetramethylenedisulphotetramine
383.	Tetramethyl Lead
384.	Tetranitromethane
385.	Thallium & Compounds
386.	Thionazin
387.	Thionazin
388.	Thinoyl Chloride
389.	Tirpate
390.	Toluene
391.	Toluene-2-4-Diisocyanate
392.	Toluidine-O
393.	Toluene 2, 6-Diisocyanate
394.	Trans-1 4-Chlorobutene
395.	Tri-1 (cyclohexyl) Stannyl-1 H-1, 2, 4-Trazole
396.	Triamino, -1, 3, 5, 2, 4, 6-Trintroxenzene
397.	Tribromophenol, 2, 4, 6
398.	Trichloro Acetyl Chloride
399.	Trichloro Ethane
400.	Trichloro Napthalene
401.	Trichloro (Chloromethyl) Silane
402.	Trichlorodichlorophenylnilane
403.	Trichloroothane 1, 1, 1
404.	Trichlorethyl Silane
405.	Trichloroethylene
406.	Trichloromethanesulphenyl Chloride
407.	Trichlorophenol, 2, 2, 6
408.	Trichlorophenol, 2, 4, 5
409.	Triethylamine
410.	Triethylenemelamine
411.	Trimethyl Chlorosilane
412.	Trimethylopropane Phosphite
413.	Trinitroaniline
414.	Trinitroanisole 2, 2, 4, 6
415.	Trinitrobenzene
416.	Trinitrobenzoic Acid
417.	Trinitrocresol
418.	Trinitrophenetole, 2, 5, 6
419.	Trinitroresorcinol, 2, 4, 6 (Styphnic Acid)
420.	Trintrotoluene
421.	Triothocreyl Phosphate
422.	Triphenyltin Chloride
423.	Turpentine
424.	Uranium & Compounds
425.	Vanadium & Compounds
426.	Vinyl Chloride
427.	Vinyl Fluoride
428.	Vinyl Toluene
429.	Warfarin
430.	Xylene
431.	Xylidine
432.	Zinc & Compounds
433.	Zirconium & Compounds

SCHEDULE 2

[*See* rules 2 (a) (ii) 2 (c), 4 (1) (b), 6 (1) (c) and (d)]

(*a*) The threshold quantities set out below relate to each installations or group of installations belonging to the same occupier where the distance between installations is not sufficient to avoid, in foreseeable circumstances, any aggravation of major accident hazards. These threshold quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(*b*) For the purpose of determining the threshold quantity of a hazardous chemical at an isolated storage, account shall also be taken of any hazardous chemical which is:—

(*i*) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres of that site and connected to it,

(*ii*) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site; and

(*iii*) in any vehicle, vessel, aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it; but no account shall be taken of any hazardous chemical which is in a vehicle, vessel, aircraft of hovercraft used for transporting it.

Sl. No.	Chemicals	Threshold Quantities (tonnes) For application of Rules 4, 5 7 & 8	For application of Rules 10 to 15
(1)	(2)	(3)	(4)
1.	Acrylonitrile	350.000	5,000.000
2.	Ammonia	60.000	600.000
3.	Ammonium nitrate (a)	350.00	2,500.000
4.	Ammonium nitrate fertilizers (b)	1,250.000	10,000.000
5.	Chlorine	10.000	25.000
6.	Flammable gases as defined in Schedule 1, paragraph (b) (i)	50.000	3,000.000
7.	Highly flammable liquids as defined in Schedule 1, Paragraph (b) (ii)	10,000.000	10,000.000
8.	Liquid oxygen	200.000	2,000.000
9.	Sodium chlorate	25.000	250.000
10.	Sulphur dioxide	20.000	500.000
11.	Sulphur trioxide	15.000	100.000
12.	Carbonyl chloride	0.750	0.750
13.	Hydrogen Sulphide	5.000	50.000
14.	Hydrogen Fluoride	5.000	50.000
15.	Hydrogen cyanide	5.000	20.000
16.	Carbon disulphide	20.000	200.000
17.	Bromine	50.000	500.000
18.	Ethylene oxide	5.000	501.000
19.	Propylene oxide	5.000	50.000
20.	2-Propenal (Acrolein)	20.000	200.000
21.	Bromomethane (Methyl bromide)	20.000	200.000
22.	Methyl Isocyanate	0.150	0.150
23.	Tetraethyl lead or tetramethyl lead	5.000	50.000
24.	1, 2 Dibromoethane (Etylene dibromide)	5.000	50.000
25.	Hydrogen chloride (liquified gas)	25.000	250.000
26.	Diphenyl methane di-isocyanate (MDI)	20.000	200.000
27.	Toluene di-isocyanate (TDI)	10.000	100.000

FOOT NOTES:

(*a*) This applies to ammonium nitrates and mixtures of ammonium nitrate where the nitrogen content dervied from the ammonium nitrate is greater than 28 per cent by weight and to aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90 per cent by weight.

(*b*) This applies to straight ammonium nitrate fertilizer and to compound fertilizers where the nitrogen content dervied from the ammonium nitrate is greater than 28 per cent by weight (a compound-fertilizer contains ammonium nitrate together with phosphate and/or potash).

SCHEDULE 3

[*See* rules 2 (a) (iii), 6 (1) (a) and (b)]

(*a*) The quantities set-out-below relate to each installation or group of installation belonging to the same occupier where the distance between the installation is not sufficient to avoid, in foreseeable circumstances, any aggravation of major-accident hazards. These quantities apply in any case to each group of installations belonging to the same occupier where the distance between the installations is less than 500 metres.

(*b*) For the purpose of determining the threshold quantity of a hazardous chemical in an industrial installation, account shall also be taken of any hazardous chemicals which is:—

(*i*) in that part of any pipeline under the control of the occupier having control of the site, which is within 500 metres off that site and connected to it;

(*ii*) at any other site under the control of the same occupier any part of the boundary of which is within 500 metres of the said site, and

(*iii*) in any vehicle, vessel aircraft or hovercraft under the control of the same occupier which is used for storage purpose either at the site or within 500 metres of it:

But no account shall be taken of any hazardous chemical which is in a vehicle, vessel, aircraft or hovercraft used for transporting it.

Part I *Named Chemicals*

Sl. No.	Chemicals	Threshold Quantity: For application of Rules 5, 7, 8, 13 and 15	Threshold Quantity: For application of Rules 10 to 12	CAS Numbers
(1)	(2)	(3)	(4)	(5)
Group I-Toxic Chemicals				
1.	Aldicarb	100 kg		116-06-3
2.	4-Aminodiphenyl	1 kg		92-67-1
3.	Amiton	1 kg		78-53-5
4.	Anabasine	100 kg		494-52-0
5.	Arsenic pentoxide, Arsenic (v) acid & Salts	500 kg		
6.	Arsenic trioxide Arsenious (III) acid & Salts	100 kg		
7.	Arsine (Arsenic hydride)	10 kg		7784-42-1
8.	Azinphos-ethyl	100 kg		2642-71-9
9.	Azinphos-methyl	100 kg		86-50-0
10.	Benzidine	1 kg		92-87-5
11.	Benzidine salts	1 kg		
12.	Beryllium (powders, compounds)	10 kg		
13.	Bls (2-chloroethyl) sulphide	1 kg		505-60-2
14.	Bls (chloromethyl) ether	1 kg		542-88-1
15.	Carbofuran	100 kg		1563-66-2
16.	Carbophenothion	100 kg		786-19-6
17.	Chlorfenvinphos	100 kg		470-90-6
18.	4-(Chloroformyl) morpholine	1 kg		15159-10-7
19.	Chloromethyl methyl ether	1 kg		107-30-2
20.	Cobalt metal, oxides, carbonates, sulphides, as powders	1 T		
21.	Crimidine	100 kg		535-89-7
22.	Cyanthoate	100 kg		3734-95-0
23.	Cycloheximide	100 kg		66-81-9
24.	Demeton	100 kg		8065-48-3
25.	Dialifos	100 kg		10311-84-9
26.	OO-Diethyl S-ethylsulphinyl methyl phosphorothioate	100 kg		2588-05-8
27.	OO-Diethyl S-ethylsulphonyl methyl phosphorthioate	100 kg		2588-06-9
28.	OO-Diethyl S-ethylthiomethyl phosphorodithioate	100 kg		2600-69-3
29.	OO-diethyl S-isopropylthiomethyl phosphorodithioate	100 kg		78-52-4
30.	OO-Diethyl S-propylthiomethyl phosphorothioate	100 kg		3309-68-0
31.	Dimefox	100 kg		115-26-4
32.	Dimethycarbamoyl chloride	1 kg		79-44-7
33.	Dimethylnitrosamine	1 kg		62-75-9
34.	Dimethyl phosphoramidocyanidic acid	1 T		63917-41-9
35.	Diphacinone	100 kg		82-66-6
36.	Disulfoton	100 kg		298-04-4
37.	EPN	100 kg		2104-64-5
38.	Ethion	100 kg		563-12-2
39.	Fensulfothion	100 kg		115-90-2
40.	Fluenetil	100 kg		4301-50-2
41.	Fluoroacetic acid	1 kg		144-49-0
42.	Fluoroacetic acid, salts	1 kg		
43.	Fluoroacetic acid, esters	1 kg		
44.	Fluoroacetic acid, amides	1 kg		
45.	4-Fluorobutyric acid	1 kg		462-23-7
46.	4-Fluorobutyric acid, salts	1 kg		
47.	4-Fluorobutyric, esters	1 kg		
48.	4-Fluorobutyric acid, amides	1 kg		
49.	4-Fluorocrotonic acid	1 kg		37759-72-1
50.	4-Fluorocrotonic acid, salts	1 kg		
51.	4-Fluorocrotonic acid, esters	1 kg		
52.	4-Fluorocrotonic acid, amides	1 kg		
53.	4-Fluoro-2-hydroxybutyric acid	1 kg		
54.	4-Fluoro-2-hydroxbutyric acid, salts	1 kg		
55.	4-Fluoro-2-hydroxybutyric acid esters	1 kg		
56.	4-Fluoro-2-hydroxybutyric acid, amides	1 kg		
57.	Glycolonitrile (hydroxyacetonitrile)	100 kg		107-16-4
58.	1, 2, 3, 7, 8, 9-Hexachlorodibenzo-P-dioxin	100 kg		19408-74-3
59.	Hexamethylphosphoramide	1 kg		680-31-9
60.	Hydrogen selenide	10 kg		7783-07-5
61.	Isobenzan	100 kg		297-78-9
62.	Isodrin	100 kg		465-73-6
63.	Juglone (5-Hydroxynaphthalene -1, 4-dione	100 kg		481-39-0
64.	4, 4'-Methylenebis (2-chloroaniline)	10 kg		101-14-4
65.	Methyl isocyanate	150 kg	150 kg	624-83-9
66.	Mevinphos	100 kg		7786-34-7
67.	2-Naphthylamine	1 kg		91-59-8
68.	Nickel Metal, oxides, carbonates, sulphide, as powders	1 t		
69.	Nickel tetracarbonyl	10 kg		13463-39-3
70.	Oxydisulfoton	100 kg		2497-07-6
71.	Oxygen difluoride	10 kg		7783-41-7
72.	Paraoxon (diethyl 4-nitrophenyl phosphate)	100 kg		311-45-5
73.	Parathion	100 kg		56-38-2
74.	Parathion-methyl	100 kg		298-00-0
75.	Pentaborane	100 kg		19624-22-7
76.	Phorate	100 kg	100 kg	298-02-2
77.	Phosacetim	100 kg		4104-14-7
78.	Phosgene (carbonyl chloride)	750 kg	750 kg	75-44-5
79.	Phosphamidon	100 kg		13171-21-6
80.	Phosphine (Hydrogen phosphide)	100 kg		7803-51-2
81.	Promurit (1-(3, 4-Dischlorophenyl)-3-triazenethio carboxamide	100 kg		5836-73-7

(1)	(2)	(3)	(4)	(5)
82.	1, 3-Propanesultone	1 kg		1120-71-4
83.	1-propen-2-chloro-1, 3-diol diacetate	10 kg		10118-72-6
84.	Pyrazoxon	100 kg		108-34-9
85.	Selenium hexafluoride	10 kg		7783-79-1
86.	Sodium Selenite	100 kg		10102-18-8
87.	Stibine (Antimony hydride)	100 kg		7803-52-3
88.	Sulfotop	100 kg		3689-24-5
89.	Sulphur dichloride	1 t		10545-99-0
90.	Tellurium hexaflouride	100 kg		7783-80-4
91.	TEPP	100 kg		107-49-3
92.	2, 3, 7, 8-Tetrachlorodibenezo-p-dioxin (TCDD)	1 kg		1746-01-6
93.	Tetramenthylenedisulphotetramine	1 kg		80-12-6
94.	Thionazin	100 kg		297-97-2
95.	Tirpate (2, 4-Dimethyl-1, 3-dithiolane-2-carboxaldehyde O-methylcarbomoyloxima)	100 kg		26419-73-8
96.	Trichloromethanesulphenyl chloride	100 kg		594-42-3
97.	1-Tri (cyclohexyl) stanny-1H- 1, 2, 4-triazole	100 kg		41083-11-8
98.	Triethylenemelamine	10 kg		51-18-3
99.	Warfarin	100 kg		81-81-2
	Group 2-Toxic chemicals (Quantity> 1 tonne)			
100.	Acetone cyanohydrin (2-Cyanopropan-2-ol)	200 t		75-86-5
101.	Acrolein (2-Propenal)	20 t		107-02-8
102.	Acrylonitrile	20 t	200 t	107-13-1
103.	Allyl alcohol (2-Propen-1-ol)	200 t		107-18-6
104.	Allylamine	200 t		107-11-9
105.	Ammonia	50 t	500 t	7664-41-7
106.	Bromine	40 t		7726-95-6
107.	Carbon disulphide	20 t	200 t	75-15-0
108.	Chlorine	10 t	25 t	7782-50-5
109.	Diphyenl methane di-isocyanate (MDI)	20 t		101-68-8
110.	Ethylene dibromide (1, 2-Dibromomethane)	5 t		106-93-4
111.	Ethyleneimine	50 t		151-56-4
112.	Formaldehyde (concentration > = 90%)	5 t		50-00-0
113.	Hydrogen chloride (liquefied gas)	25 t	250 t	7647-01-0
114.	Hydrogen cyanide	5 t	20 t	74-90-8
115.	Hydrogen fluoride	5 t	50 t	7664-39-3
116.	Hydrogen sulphide	5 t	50 t	7783-06-4
117.	Methyl bromide (Bromomethane)	20 t		74-83-9
118.	Nitrogen oxides	50 t		11104-93-1
119.	Propyleneimine	50 t		75-55-8
120.	Sulphur dioxide	20 t		7446-09-5
121.	Sulphur trioxide	15 t	75 t	7446-11-9
122.	Tetraethyl lead	5 t		78-00-2
123.	Tetramethyl lead	5 t		75-74-1
124.	Toluene di-isocyanate (TDI)	10 t		584-84-9
	Group3-Highly reactive Chemicals			
125.	Acetylene (ethyne)	5 t		74-86-2
126.	a. Ammonium nitrate (1)	350 t	2500 t	6484-52-2
	b. Ammonium nitrate in the form of fertiliser (2)	1,250 t		
127.	2, 2-Bis (tert-butyl-peroxy) butane (concentration > = 70%)	5 t		2167-23-9
128.	1, 1-Bis (tert-butyl-peroxy) cyclohexane (concentration > = 80%)	5 t		3006-86-8
129.	Tert-Butyl peroxyacetate (concentration > = 70%)	5 t		107-71-1
130.	Tert-Butyl peroxyisobutyrate (concentration > = 80%)	5 t		109-13-7
131.	Tert-Butyl peroxyisopropyl carbonate (concentration > = 80%)	5 t		2372-21-6
132.	Tert-butyl peroxymaleate (concentration > = 80%)	5 t		1931-62-0
133.	Tert-Butyl peroxypivalate (concentration > = 77%)	50 t		927-07-1
134.	Dibenzyl peroxydicarbonate (concentration > = 90%)	5 t		2144-45-8
135.	Di-Sec-butyl peroxydicarbonate (concentration > = 80%)	5 t		19910-65-7
136.	Diethyl peroxydicarbonate (concentration > = 30%)	50 t		14666-78-5
137.	2, 2-Dihydroperoxypropane (concentration > = 30%)	5 t		2614-76-8
138.	Di-isobutryl peroxide (concentration > = 50%)	50 t		3437-84-1
139.	Di-n-propyl peroxydicarbonate (concentration > = 80%)	5 t		16066-38-9
140.	Ethylene oxide	5 t	50 t	75-21-8
141.	Ethyl nitrate	50 t		625-58-1
142.	3, 3, 6, 6, 9, 9, -Hexamethyl -1, 2, 3, 5-tetroxacyclonane (concentration > = 75%)	50 t	50 t	22397-33-7
143.	Hydrogen	2 t	50 t	1333-74-0
144.	Liquid oxygen	200 t		7782-44-7
145.	Nethyl ethyl ketone (concentration > = 60%)	5 t	5 t	1338-23-4
146.	Methyl isobutyl ketone peroxide (concentration > = 60%)	50 t		37206-20-5
147.	Peracetic acid (concentration > = 60%)	50 t		79-21-0
148.	Propylene oxide	5 t	5 t	75-56-9
149.	Sodium chlorate	25 t		7775-09-9
	Group 4-Explosive Chemicals			
150.	Barium azide	50 t		18810-58-7
151.	Bis (2, 4, 6-trinitophenyl) amine	50 t		131-73-7
152.	Chlorotrinitrobenzene	50 t		28260-61-9
153.	Cellulose nitrate (containing > 12.6% nitrogen)	50 t		9004-70-0
154.	Cyclotetramethylene tetranitramine	50 t		2691-41-0
155.	Cyclotrimethylenetri nitroamine	50 t		121-82-4

(1)	(2)	(3)	(4)	(5)
156.	Diazodintrophenol	10 t		7008-81-3
157.	Diethylene glycol dinitrate	10 t		693-21-0
158.	Dinitrophenol, salts	50 t		
159.	Ethylene glycol dinitrate	10 t		628-96-6
160.	1-Guanyl-4-nitrosamineoguanyyl-1-tetrazerte	10 t		109-27-3
161.	2, 2', 4, 4', 6, 6' -Hexanitrostilbene	50 t		20062-22-0
162.	Hydrazine nitrate	50 t		13464-97-6
163.	Lead azide	50 t		13424-46-9
164.	Lead styphnate (lead 2, 4, 6-trinitroresorcinoxide)	50 t		15245-44-0
165.	Mercury fulminate	10 t		628-86-4
166.	N-Methyl-N, 2, 4, 6-tetranitroaniline	50 t		479-45-8
167.	Nitrogylcerine	10 t	10 t	55-63-0
168.	Pentaerythritol tetranitrate	50 t		78-11-5
169.	Picric acid (2, 4, 6-Trinitrophenol)	50 t		88-89-1
170.	Sodium picramate	50 t		831-52-7
171.	Styphnic acid (2, 4, 6-Trinitroresorcino)	50 t		82-71-3
172.	1, 3, 5-Triamino-2, 4, 6-trinitrobenzene	50 t		3058-38-6
173.	Trinitroaniline	50 t		26952-42-1
174.	2, 4, 6-Trinitroanisole	50 t		606-35-9
175.	Trinitribenzene	50 t		25377-32-6
176.	Trinitrobenzoic acid	50 t		35860-50-5
177.	Trinitrocresol	50 t		28905-71-7
178.	2, 4, 6-Trinitrophenetole	50 t		4732-14-3
179.	2, 3, 6-trinitrotoluene	50 t	50 t	118-96-7

Part - II Classes of chemicals not specifically named in Part - I

Sl. No.	Classes of Chemicals	Threshold Quantities: For application of Rules 5, 7 8, 13 and 15	Threshold Quantities: For application of Rules 10 to 12
(1)	(2)	(3)	(4)
	Group-5-Flammable Chemicals		
1.	Flammables gases: Chemicals which in gaseous state at normal pressure and mixed with air become flammable and the boiling point of which at normal pressure is 20 degree C or below:	15 t	200 t
2.	Highly flammable liquids: Chemicals which have a flash point lower than 23 degree C and the boiling point of which at normal pressure is above 20 degree C;	1000 t	50.000 t
3.	Flammable liquids: Chemicals which have a flash point lower than 65 degree C and which remain liquid under pressure, where particular processing conditions, such as high pressure and high temperature, may create major accident hazards.	25 t	200 t

FOOT NOTES:

(1) This applies to ammonium nitrate and mixtutes of ammonium nitrate where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight and aqueous solutions of ammonium nitrate where the concentration of ammonium nitrate is greater than 90% by weight.

(2) This applies to straight ammonium fertilisers and to compound fertilisers where the nitrogen content derived from the ammonium nitrate is greater than 28% by weight (a compound fertiliser contains ammonium nitrate together with phosphate and/or potash).

*CAS Number (Chemical Abstracts Service Number) means the number assigned to the chemical by the Chemical Abstracts Service.

SCHEDULE 4

[*See* rule 2 (b) (i)]

(1) Factories involving in production, processing or treatment of organic or inorganic chemicals using for this purpose, among others:

(a) alkylation

(b) amination by amonolysis

(c) carbonylation

(d) condensation

(e) dehydrogenation

(f) estefication

(g) halogenation & manufacture of halogens

(h) hydrogenation

(i) hydrolysis

(j) oxidation

(k) polymerization

(l) sulphonation

(m) desulphurization, manufacture and transformation of sulphur-containing compounds

(n) nitration and manufacture of nitrogen-containing compounds

(o) manufacture of phosphorous-containing compounds

(p) formulation of pesticides and of pharmaceutical products

(q) distillation

(r) extraction

(s) solvation

(t) mixing

(2) Factories involving in distillation, refining or other processing of petroleum or petroleum products.

(3) Factories involving in total or partial disposal of solid or liquid chemicals by incineration or chemical decomposition.

(4) Factories involving in production, processing or treatment of energy gases, for example, LPG, LNG, SNG.

(5) Factories involving in dry distillation of coal or lignite.

(6) Factories involving in production of metals or non-metals by a wet process or by means of electrical energy.

SCHEDULE 7

[*See* rule 7 (1)]

Information to be furnished for the Notification of site Particulars to be included in a Notification of site

(1) The name and address of the occupier making the notification.

(2) The full postal address of the site where the notifiable industrial activity will be carried on.

(3) The area of the site covered by the notification and of any adjacent site which is required to be taken into account by virtue of Schedule 2 (*b*) and Schedule 3 (*b*).

(4) The date on which it is anticipated that the notifiable industrial activity will commence or if it has already commenced a statement to that effect.

(5) The name and maximum quantity liable to be on the site of each hazardous chemical for which notification is being made.

(6) Organisation structure, namely, organisation diagram for the proposed industrial activity and set up for ensuring safety and health.

(7) Information relating to the potential for major accidents, namely—

(*a*) identification of major accident hazards;

(*b*) the condition of events which could be significant in bringing one about;

(*c*) a brief description of the measures taken.

(8) Information relating to the site namely—;

(*a*) a map of the site and its surrounding area to a scale large enough to show any features that may be significant in the assessment of the hazard or risk associated with the site;

(*i*) area likely to be affected by the major accident,

(*ii*) population distribution in the vicinity.

(*b*) a scale plan of the site showing the location and quantity of all significant inventories of the hazardous chemicals;

(c) a description of the processes or storages involving the hazardous chemicals, the maximum amount of such a hazardous chemical in the given process or storage and an indication of the conditions under which it is normally held;

(*d*) the maximum number of persons likely to be present on site.

(9) The arrangement for training of workers and equipment necessary to ensure safety of such workers".

20. *Insertion of new Schedule.*— In the principal Rules, after Schedule 8, the following Schedule shall be inserted, namely:—

"SCHEDULE 8A

[*See* rule 13(1)]

Details to be Furnished in the on-site Emergency Plan

(1) Name and address of the persons furnishing the information.

(2) Key personnel of the organisation and responsibilities assigned to them in case of an emergency.

(3) Outside organisation if involved in assisting during on-site emergency.

(*a*) Type of accidents.

(*b*) Responsibility assigned.

(4) Details of liaison arrangement between the organisations.

(5) Information on the preliminary hazard analysis.

(*a*) Type of accidents.

(*b*) System elements or events that can lead to a major accident.

(*c*) Hazards.

(*d*) Safety relevant components

(6) Details about the site

(*a*) Location of dangerous substances.

(*b*) Seat of key personnel.

(*c*) Emergency control room.

(7) Description of hazardous chemicals at plant site

(*a*) Chemicals (Quantities and toxicological data).

(*b*) Transformation if any which could occur.

(*c*) Purity of hazardous chemicals.

(8) Likely dangers to the plant

(9) Enumerate effects of:

(*i*) Stress and strain caused during normal operation;

(*ii*) fire and explosion inside the plant and effect if any, of fire and explosion out side.

(10) Details regarding

(*i*) warning, alarm & safety and security systems.

(*ii*) alarm and hazard control plans in line with disaster control and hazard control planning, ensuring the necessary technical and organisational precautions;

(*iii*) reliable measuring instruments, control units and servicing of such equipments.

(*iv*) precautions in designing of the foundation and load bearing parts of the building;

(*v*) Continuous surveillance of operations;

(*vi*) maintenance and repair work according to the generally recognised rules of good engineering practices;

(11) Details of communication facilities available during emergency and those required for an off-site emergency.

(12) Details of fire fighting and other facilities available and those required for an off-site emergency.

(13) Details of first aid and hospital services available and its adequacy".

By order and in the name of the Governor of Goa.

C. V. Dhume, Chief Inspector of Factories and Boilers and Ex-Officio Joint Secretary.

Panaji, 7th May, 1999.

Department of Personnel

Notification

1/15/85-PER

In exercise of the powers conferred by the proviso to Article 309 of the Constitution, and in supersession of the existing Recruitment Rules for the relevant posts, the Governor of Goa hereby makes the following rules to regulate the recruitment to the Goa General Service, Group 'C' Non-Ministerial Non-Gazetted posts in the Directorate of Tourism, Government of Goa, namely:—

1. *Short title, application and commencement.*— (*1*) These rules may be called the Government of Goa, Directorate of Tourism, Group 'C' Non-Ministerial Non-Gazetted posts, Recruitment Rules, 1999.

(*2*) They shall apply to the posts specified in column (*1*) of the Schedule to these rules (hereinafter called as the "said schedule").

(*3*) They shall come into force from the date of their publication in the Official Gazette.

2. *Number, classification and scales of pay.*— The number of posts, classification of the said posts and the scales of pay attached thereto shall be as specified in columns (*2*) to (*4*) of the said Schedule.

Provided that the Government may vary the number of posts in column (2) of the said Schedule from time to time subject to exigencies of work.

3. *Method of recruitment, age limit and other qualifications.*— The method of recruitment to the said posts, age limit, qualifications and other matters connected therewith shall be as specified in columns (*5*) to (*13*) of the said Schedule.

4. *Disqualification.*— No person who has entered into or contracted a marriage with a person having a spouse living or who, having a spouse living, has entered into or contracted a marriage with any person, shall be eligible for appointment to the service.

Provided that the Government may, if satisfied that such marriage is permissible under the personal law applicable to such person and the other party to the marriage and that there are other grounds for so doing, exempt any person from the operation of this rule.

5. *Power to relax.*— Where the Government is of the opinion that it is necessary or expedient so to do, it may, by order, for reasons to be recorded in writing and in consultation with the Goa Public Service Commission, relax any of the provision of these rules with respect to any class or category of persons.

6. *Saving.*— Nothing in these rules shall affect reservation, relaxation of age limit and other concessions required to be provided for Scheduled Castes, and other special categories of persons in accordance with the orders issued by the Government from time to time in that regard.

By order and in the name of the Governor of Goa.

G. J. Prabhudesai, Joint Secretary (Personnel).

Panaji, 8th June, 1999.

SCHEDULE

Name/ /Desi- -gnation of post	Number of posts	Classifi- cation	Scale of pay	Whether selec- tion post or non- -selec- tion post	Age limit for direct recruits	Whether the benefit of added year of service is admissible under Rule 30 of CCS (Pen- sion) Rules, 1972	Educational and other qualifications required for direct recruits	Whether age & educational qualifications prescribed for the direct recruits will apply in the case of promotees	Period of proba- tion, if any	Method of recruitment, whether by direct or by promotion or by deputation/ /transfer/ /contract and percentage of the vacancies to be filled by various methods	In case of recruitment by promotion/ /deputation/ /transfer, grades from which promotion/ /deputation/ /transfer is to be made	If a D. P. C. exists, what is its composition	Circumstances in which Goa Public Service Commission is to be consulted in making recruitment
1	2	3	4	5	6	6(a)	7	8	9	10	11	12	13
Life- -Guards.	48 (1999) Sub- ject to varia- tion de- pen- dent on work- load.	Group 'C' (Non- Minis- terial Non- Gazet- ted).	Rs. 3050- -75- -3950- -80- -4590.	N. A.	Not exceed- ing 30 years (Relaxation for Govern- ment servants upto 5 years in accordance with the instructions / / o r d e r s issued by Government). *Note:* The Candidate so a p p o i n t e d will be subject to a swimming test conducted by National Institute of Watersports after comple- tion of 40 years of age failing which he shall cease to be in ser- vice.		*Essential:* i) S. S. C. or equivalent. ii) Ability to swim 500 mts. in 10 minutes. iii) Ability to run 2 Kms in 12 min. iv) Candidate should fulfill following physical/Medi- cal standards: a) Minimum height-165 cm. b) Chest Measurement proportionate to height and age laid down in medical chart. c) Vision: 6x6 without glasses and no colour blindness. d) General health free from all communi- cable diseases and medical/surgical deformities. Should not have a history of fits and Psychiatric ailments. v) Working knowledge of Konkani and English. *Desirable:* i) Higher Secondary or Graduate. ii) Working knowledge of Marathi/Hindi.	N. A.	2 years.	By Direct Re- cruitment.	N. A.	Group 'C' D.P.C.	As required under Goa Public Ser- vice Com- mission (Ex- e m p t i o n from Con- sultation) Regulation 1988. Con- s u l t a t i o n with the Goa Public Ser- vice Com- mission is necessary for making confirma- tion and for amending/ /relaxing any of the provi- sions of these rules.

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